

07 APR 2004

PATENT COOPERATION TREATY

Recd PCT/PTO

09 MAR 2005

From the INTERNATIONAL SEARCHING AUTHORITY

**PCT**

To:  
 TOMKINS & CO.  
 Attn. Lane, Cathal M.  
 5 Dartmouth Road  
 Dublin 6  
 IRELAND

**NOTIFICATION OF TRANSMITTAL OF  
THE INTERNATIONAL SEARCH REPORT  
OR THE DECLARATION**

(PCT Rule 44.1)

Date of mailing  
(day/month/year)

31/03/2004

Applicant's or agent's file reference  
PN871PCT

**FOR FURTHER ACTION** See paragraphs 1 and 4 below

International application No.  
PCT/IE 03/00122

International filing date  
(day/month/year)

11/09/2003

Applicant

HENKEL LOCTITE DEUTSCHLAND GMBH

1.  The applicant is hereby notified that the International Search Report has been established and is transmitted herewith.

**Filing of amendments and statement under Article 19:**

The applicant is entitled, if he so wishes, to amend the claims of the International Application (see Rule 46):

**When?** The time limit for filing such amendments is normally 2 months from the date of transmittal of the International Search Report; however, for more details, see the notes on the accompanying sheet.

**Where?** Directly to the International Bureau of WIPO  
34, chemin des Colombettes  
1211 Geneva 20, Switzerland  
Facsimile No.: (41-22) 740.14.35

For more detailed instructions, see the notes on the accompanying sheet.

2.  The applicant is hereby notified that no International Search Report will be established and that the declaration under Article 17(2)(a) to that effect is transmitted herewith.

3.  With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:

the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.

no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.

4. **Further action(s):** The applicant is reminded of the following:

Shortly after 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication.

Within 19 months from the priority date, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later).

Within 20 months from the priority date, the applicant must perform the prescribed acts for entry into the national phase before all designated Offices which have not been elected in the demand or in a later election within 19 months from the priority date or could not be elected because they are not bound by Chapter II.

Name and mailing address of the International Searching Authority  
 European Patent Office, P.B. 5818 Patentlaan 2  
 NL-2280 HV Rijswijk  
 Tel. (+31-70) 340-2040, Tx. 31 651 epo nl.  
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Authorized officer

Jan Boon

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## NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions, respectively.

### INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only.

#### What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

**When?** Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

#### Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been/is filed, see below.

**How?** Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

**The amendments must be made in the language in which the international application is to be published.**

#### What documents must/may accompany the amendments?

##### Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

**The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.**

## NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

**The following examples illustrate the manner in which amendments must be explained in the accompanying letter:**

1. [Where originally there were 48 claims and after amendment of some claims there are 51]: "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
2. [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."
3. [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]: "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
4. [Where various kinds of amendments are made]: "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

### "Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

**It must be in the language in which the international application is to be published.**

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

### Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments and any accompanying statement, under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the time of filing the amendments (and any statement) with the International Bureau, also file with the International Preliminary Examining Authority a copy of such amendments (and of any statement) and, where required, a translation of such amendments for the procedure before that Authority (see Rules 55.3(a) and 62.2, first sentence). For further information, see the Notes to the demand form (PCT/IPEA/401).

### Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.

## PATENT COOPERATION TREATY

PCT

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference  PN871 PCT	<b>FOR FURTHER ACTION</b> see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No.  PCT/IE 03/00122	International filing date (day/month/year)  11/09/2003	(Earliest) Priority Date (day/month/year)  11/09/2002
Applicant  HENKEL LOCTITE DEUTSCHLAND GMBH		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 9 sheets.

It is also accompanied by a copy of each prior art document cited in this report.

**1. Basis of the report**

- a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

- the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).
- b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of the sequence listing :
- contained in the international application in written form.
- filed together with the international application in computer readable form.
- furnished subsequently to this Authority in written form.
- furnished subsequently to this Authority in computer readable form.
- the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2.  Certain claims were found unsearchable (See Box I).

3.  Unity of invention is lacking (see Box II).

4. With regard to the title,

- the text is approved as submitted by the applicant.
- the text has been established by this Authority to read as follows:

5. With regard to the abstract,

- the text is approved as submitted by the applicant.
- the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the drawings to be published with the abstract is Figure No.

- as suggested by the applicant.
- because the applicant failed to suggest a figure.
- because this figure better characterizes the invention.

1

None of the figures.

## INTERNATIONAL SEARCH REPORT

## Box III TEXT OF THE ABSTRACT (Continuation of item 5 of the first sheet)

An apparatus (1) for the application of a composition curable by irradiation to a fastener (2) having a conveyor (3) for conveying fasteners to an application station (5); an application station (10) comprising an applicator from which the composition is dispensed. The conveyor rotates the fasteners past the applicator for application of composition. The same or another conveyor (8) conveys the fasteners to an irradiation station (10) and rotates the fasteners for irradiation thereof. The irradiation station irradiates and thus cures the composition applied to each fastener. The invention also provides a curable composition for application to a threaded article.

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 B05C9/14 C13/02 B05C9/02 B05C11/10 D9J4/00  
 C08L63/00 C08F290/06

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 B05C B05B B29C C09J C08L C08F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 154 194 A (ENDLICH WILHELM ET AL) 15 May 1979 (1979-05-15) column 3, line 38 - line 51 column 4, line 20 - line 38 column 4, line 53 - line 63 column 6, line 11 - line 64 column 7, line 29 - line 50 column 8, line 12 - line 34 figures	1-24, 27-30
Y	----- -/-	25, 26

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

## \* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*&\* document member of the same patent family

Date of the actual completion of the international search

26 February 2004

Date of mailing of the international search report

31.03.04

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl.  
Fax: (+31-70) 340-3016

Authorized officer

Meulemans, R

## INTERNATIONAL SEARCH REPORT

International Application No  
PCT/IE 03/00122

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 651 824 A (WALLACE JOHN S ET AL) 29 July 1997 (1997-07-29)  column 3, line 8 - line 28 column 4, line 17 - line 40 column 5, line 63 - column 6, line 15 figures -----	1, 3-6, 10, 11, 14, 20, 23, 27-30
Y	US 5 000 636 A (WALLACE RICHARD B) 19 March 1991 (1991-03-19) the whole document -----	25, 26
X	US 4 842 890 A (SESSA EUGENE D ET AL) 27 June 1989 (1989-06-27)  column 5, line 3 - column 6, line 48 figures -----	1, 3-6, 10, 11, 14-20, 23, 27-30
A	US 5 817 177 A (WALLACE JOHN S) 6 October 1998 (1998-10-06) column 4, line 7 - line 18 column 5, line 7 - line 18 -----	1
X	US 5 426 130 A (THURBER MARK C ET AL) 20 June 1995 (1995-06-20)  column 6, lines 11-30 column 14, lines 11-32 column 22, lines 13-39 -----	34-38, 44, 45, 51, 54, 55, 66-68
X	GB 2 255 781 A (REACTIVE IND INC) 18 November 1992 (1992-11-18) cited in the application page 11, lines 3-22; claims 1, 28 -----	34
X	EP 0 077 659 A (THOMPSON WILLIAM HENRY) 27 April 1983 (1983-04-27) cited in the application page 7, lines 13-35 -----	34-40
X	US 4 325 985 A (WALLACE RICHARD B) 20 April 1982 (1982-04-20) the whole document -----	34
X	EP 0 548 369 A (THREE BOND CO LTD) 30 June 1993 (1993-06-30) cited in the application the whole document -----	34, 35
A	GB 1 265 489 A (DUNLOP HOLDING LIMITED) 1 March 1972 (1972-03-01) claims 1, 2 -----	34
		-/-

## INTERNATIONAL SEARCH REPORT

International Application No  
PCT/IE 03/00122

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 3 746 068 A (DECKERT F ET AL) 17 July 1973 (1973-07-17) claim 1 -----	34

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/IE 03/00122

## Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1.  Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
  
2.  Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
  
3.  Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1.  As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
  
2.  As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
  
3.  As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:

1-30, 34-68

  
4.  No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

### Remark on Protest

- The additional search fees were accompanied by the applicant's protest.
- No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/SA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-30

An apparatus for the application of a composition to a fastener, comprising a conveyor system, an application station and an irradiation station.

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2. claims: 31-33

A feed supply system for supplying a composition to an application station comprising a volumetric supply pump.

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3. claims: 34-68

A curable composition suitable for use in threadlocking applications.

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## INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/IE 03/00122

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
US 4154194	A	15-05-1979	DE DE FR GB	2540359 A1 2543117 A1 2323456 A1 1552170 A		24-03-1977 07-04-1977 08-04-1977 12-09-1979
US 5651824	A	29-07-1997	US BR CA EP WO	5518768 A 9607121 A 2212029 A1 0809540 A1 9623593 A1		21-05-1996 04-11-1997 08-08-1996 03-12-1997 08-08-1996
US 5000636	A	19-03-1991	US US	4847113 A RE34522 E		11-07-1989 25-01-1994
US 4842890	A	27-06-1989	AU CA DE DE EP ES IL MX WO US	2128888 A 1296954 C 3854527 D1 3854527 T2 0354216 A1 2009961 A6 86946 A 167379 B 8900087 A1 5025750 A		30-01-1989 10-03-1992 02-11-1995 22-02-1996 14-02-1990 16-10-1989 14-01-1993 19-03-1993 12-01-1989 25-06-1991
US 5817177	A	06-10-1998	US BR CA DE EP WO	5672376 A 9508222 A 2194060 A1 69530981 D1 0768923 A1 9601155 A1		30-09-1997 28-10-1997 18-01-1996 10-07-2003 23-04-1997 18-01-1996
US 5426130	A	20-06-1995	CA DE GB JP JP MX	2061230 A1 4204365 A1 2255781 A ,B 2747628 B2 5125297 A 9200604 A1		16-08-1992 03-09-1992 18-11-1992 06-05-1998 21-05-1993 01-10-1992
GB 2255781	A	18-11-1992	CA DE JP JP MX US	2061230 A1 4204365 A1 2747628 B2 5125297 A 9200604 A1 5426130 A		16-08-1992 03-09-1992 06-05-1998 21-05-1993 01-10-1992 20-06-1995
EP 0077659	A	27-04-1983	AT AU AU CA DE EP ES JP JP JP US	25135 T 566422 B2 8929482 A 1241144 A1 3275221 D1 0077659 A1 8403587 A1 1646195 C 3008393 B 58125772 A 4632944 A		15-02-1987 22-10-1987 21-04-1983 23-08-1988 26-02-1987 27-04-1983 16-06-1984 13-03-1992 05-02-1991 26-07-1983 30-12-1986

## INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/IE 03/00122

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
US 4325985	A	20-04-1982	DE	3112631 A1		29-04-1982
			GB	2073610 A		21-10-1981
EP 0548369	A	30-06-1993	JP	5017723 A		26-01-1993
			BR	9205430 A		19-04-1994
			CA	2089160 A1		11-01-1993
			DE	69205133 D1		02-11-1995
			DE	69205133 T2		15-05-1996
			EP	0548369 A1		30-06-1993
			KR	241126 B1		02-03-2000
			US	5397812 A		14-03-1995
			ES	2077426 T3		16-11-1995
			WO	9301421 A1		21-01-1993
GB 1265489	A	01-03-1972	NONE			
US 3746068	A	17-07-1973	NONE			

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